

INTERNATIONAL SEARCH REPORT

INTERNATIONAL PATENT APPLICATION No
PCT/DK 03/00827

03 JUN 2005

10/537507

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/68 A61K38/48 A61K39/395 //C12N9/64

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, BIOSIS, PAJ, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02 06460 A (THIEL STEFFEN ;JENSENIUS JENS CHRISTIAN (DK)) 24 January 2002 (2002-01-24) page 2, line 17 -page 5, line 4 page 14 -page 15 page 27, line 15 - line 25 page 33, line 11 -page 37, line 6; claims abstract --- -/--	1-44

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

24 May 2004

Date of mailing of the international search report

17. 06. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

TERESE PERSSON / ELY

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00827

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VORUP-JENSEN T ET AL: "Distinct pathways of mannan-binding lectin (MBL)- and C1-complex autoactivation revealed by reconstitution of MBL with recombinant MBL-associated serine protease-2." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD.: 1950) UNITED STATES 15 AUG 2000, vol. 165, no. 4, 15 August 2000 (2000-08-15), pages 2093-2100, XP002280556 ISSN: 0022-1767 page 2094, column 1, paragraphs 3,4 ---	37,38
X	ROSSI VERONIQUE ET AL: "Substrate specificities of recombinant mannan-binding lectin-associated serine proteases-1 and -2" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 276, no. 44, 2 November 2001 (2001-11-02), pages 40880-40887, XP002280557 ISSN: 0021-9258 page 40881, column 1, paragraph 5; figure 1 ---	23,24,27
X	PETERSEN STEEN VANG ET AL: "Generation of antibodies towards MASP-1 and MASP-2 using bacterial expression systems" MOLECULAR IMMUNOLOGY, vol. 35, no. 6-7, April 1998 (1998-04), page 409 XP002280558 XVII International Complement Workshop; Rhodes, Greece; October 11-16, 1998 ISSN: 0161-5890 abstract ---	33
X	STOVER C M ET AL: "Two constituents of the initiation complex of the mannan-binding lectin activation pathway of complement are encoded by a single structural gene." JOURNAL OF IMMUNOLOGY (BALTIMORE, MD.: 1950) UNITED STATES 15 MAR 1999, vol. 162, no. 6, 15 March 1999 (1999-03-15), pages 3481-3490, XP002280559 ISSN: 0022-1767 page 3483, column 7, paragraph 3 --- -/--	33

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00827

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE ZCAPLUS [Online] "Genes of antibiotic-synthesizing actinomycetes and their use in analysis of gene expression profiles and gene discovery" retrieved from STN Database accession no. 2003:724939 XP002280563 see sequence, nucleotides 328-348 abstract & EP 1 262 562 A 4 December 2002 (2002-12-04)</p>	23,24,27
A	<p>PATENT ABSTRACTS OF JAPAN vol. 2002, no. 09, 4 September 2002 (2002-09-04) & JP 2002 153299 A (SUMIKIN BIOSCIENCE KK;KAWAKAMI MASAYA), 28 May 2002 (2002-05-28) abstract</p>	1-44
A	<p>THOMAS H C ET AL: "Mutation of gene of mannose-binding protein associated with chronic hepatitis B viral infection." LANCET. ENGLAND 23 NOV 1996, vol. 348, no. 9039, 23 November 1996 (1996-11-23), pages 1417-1419, XP002280560 ISSN: 0140-6736 the whole document</p>	1-44
P,X	<p>STENGAARD-PEDERSEN KRISTIAN ET AL: "Inherited deficiency of mannan-binding lectin-associated serine protease 2." NEW ENGLAND JOURNAL OF MEDICINE, vol. 349, no. 6, 7 August 2003 (2003-08-07), pages 554-560, XP002280561 ISSN: 0028-4793 (ISSN print) the whole document</p>	1-44
P,X	<p>CARLSSON M ET AL: "Cystic fibrosis patients heterozygous for MASP-2 gene mutation have lowered MASP-2 concentration, without relation to clinical findings." MOLECULAR IMMUNOLOGY, vol. 40, no. 2-4, September 2003 (2003-09), page 208 XP002280562 9th European Complement Workshop;Trieste, Italy; September 06-09, 2003 ISSN: 0161-5890 (ISSN print) abstract</p>	1-44

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK 03/00827

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 44
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.: 23-24,27 (all partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 44

Claim 44 relates to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practised on the human or animal body (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for this claim. The search has been based on the alleged effects of the compounds or compositions.

Continuation of Box I.2

Claims Nos.: 23-24,27 (all partly)

Present claims 23-24 and 27 relate to an extremely large number of possible isolated oligonucleotides. As the claims are worded, they include any oligonucleotide that comprises a sequence of 10 contiguous nucleotides that are identical to 10 contiguous nucleotides in the DNA sequence encoding the MASP-2 protein having a glycine at position 105. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the isolated oligonucleotides. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts related to such isolated oligonucleotides that have actually been made, i.e. SEQ. ID. NO. 5-8.

Additional claims relating to these claims have been searched with the same limitations.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/DK 03/00827

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0206460	A	24-01-2002	AU 7958601 A	30-01-2002
			CA 2415751 A1	24-01-2002
			CN 1449440 T	15-10-2003
			WO 0206460 A2	24-01-2002
			EP 1303591 A2	23-04-2003
			JP 2004504027 T	12-02-2004
			NO 20030114 A	25-02-2003
			NZ 523900 A	27-02-2004
			US 2004038297 A1	26-02-2004

EP 1262562	A	04-12-2002	CA 2384352 A1	30-11-2002
			EP 1262562 A2	04-12-2002
			JP 2003284572 A	07-10-2003
			US 2003119018 A1	26-06-2003

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